

05/2/14



OIPE

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/021,338A

DATE: 11/26/2002 8.6
TIME: 14:02:36

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11262002\J021338A.raw

3 <110> APPLICANT: Quark Biotech Inc.

5 <120> TITLE OF INVENTION: Genes involved in stroke response and/or regulated by FK506, proteins

6 encoded thereby, and methods of use

8 <130> FILE REFERENCE: 65542/024-US1

10 <140> CURRENT APPLICATION NUMBER: 10/021338A

11 <141> CURRENT FILING DATE: 2001-12-12

13 <160> NUMBER OF SEQ ID NOS: 131

15 <170> SOFTWARE: PatentIn version 3.1

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 269

19 <212> TYPE: DNA

20 <213> ORGANISM: Homo sapiens

22 <400> SEQUENCE: 1

23 ccaacttgcc cgttggtccac ggggtcccacc ccttccttgcc gctcctcctc tgcagggtccc 60

25 gccctctccc cctgcctcac tcccaatgtc tcctttggct aagccccctc cacaggcccc 120

27 acctgctctg gccacacctc ctctgcaggc ccttcctctc ccgcctgcct cattccctgg 180

29 gcaggccccct ttctcaccct ctgcctcaact cccaatgtct cctttggcca cgccctcctc 240

31 acaggcccca cctgttctgt agttagtta 269

34 <210> SEQ ID NO: 2

35 <211> LENGTH: 280

36 <212> TYPE: DNA

37 <213> ORGANISM: Homo sapiens

39 <400> SEQUENCE: 2

40 ccaagtccac ccgatcacaa ggctcagctc ttaagtgtc tgcgatactg cttttctaac 60

42 aatgcctggt gcctccctga gtgaattccc aataggagtc tttccacttt agtccaacat 120

44 gaggcaagta gttgcagggt ccaggtaaca taatgagctc caccttggtg atcactctga 180

46 gtagacaatg ctcaaaaaaa cagagcacca cataatgtat caaccctaac agtcaccctt 240

48 ctgacatctc tattggaaag aggggataag tagttagtta 280

51 <210> SEQ ID NO: 3

52 <211> LENGTH: 261

53 <212> TYPE: DNA

54 <213> ORGANISM: Homo sapiens

56 <400> SEQUENCE: 3

57 ccttttaaatt tttaactat cacactttat ttattcaatc accaagcccc accttatcta 60

59 ttccccgtgt cacacacaaa tccactattc taatcctgtt tacacacccc ttccacaggg 120

61 ttttatctca cttatgataa aatccaaaac tcacagcata gccactctcc ccaaagcata 180

63 ctatgcttta accacactgg tctttcctaa aagtttctcc tattcccaa tctttcttcc 240

65 ttactctaag gtagttagtt a 261

68 <210> SEQ ID NO: 4

69 <211> LENGTH: 261

70 <212> TYPE: DNA

71 <213> ORGANISM: Homo sapiens

73 <400> SEQUENCE: 4

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74 taactaacta ggggaacctgg gggccaagg gcccagcag tcagcaccaa tgcaatagtc      60
76 cttgaagatc acggccaaag ctatacttgc tctggacagg taactcccc ttcatgggc      120
78 aggggtggtg aaaggagcaa gcagaagcaa aaaggaattt tcctctaaaa acagaattgc      180
80 tgaaaggcac ttaatagagg gataggggcc agacacggtg gctcacacct ataatcccag      240
82 tactttaata ggaagaggct g                                     261
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 110
87 <212> TYPE: DNA
88 <213> ORGANISM: Homo sapiens
90 <400> SEQUENCE: 5
91 taactaacta tgccaaaggg aaatgttaag cttgggaact gagtcacgca atagcctttt      60
93 gtccctaagc agatggctgt aagacagaag gtcacctatc tcccagatgg      110
96 <210> SEQ ID NO: 6
97 <211> LENGTH: 256
98 <212> TYPE: DNA
99 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 6
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104 cactgctaata tggataataa gcagctacca catccagtat gagccagtca gatcctctct      120
106 cttgggaaac tagcattcac agccagtgcc tctacagaga aggaagcata agcatttaga      180
108 aagatagttc tcctgactct agggggccac tggtaataac aatctcagtt tctgaggctt      240
110 tccagtttct ggatec                                     256
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 403
115 <212> TYPE: DNA
116 <213> ORGANISM: Rattus sp.
118 <220> FEATURE:
119 <221> NAME/KEY: misc_feature
120 <222> LOCATION: (255)..(255)
121 <223> OTHER INFORMATION: n
123 <400> SEQUENCE: 7
124 cctcagtagg agggagcgcg tgtgtgtgtg tgtgcgctg tgtgagtggtg tgtaacaacc      60
126 cagaaagctg gtaagagctg cagagaggca gtgtttatta gattcacact tagacactga      120
128 ttgtgggttc tggcttagct cttttataat tgtaaaagta tatttttgct gctttgtaat      180
130 aggataattc ttaagcatca tcttaaaata gaggtatttt gattcttttt tgtggagctg      240
W--> 132 tgactaaagt gcagngtctc acataggcta agcaagtgtc gtgcactgag ttgaacccca      300
134 gcagaagtag gtgctgcaag tgtaaaacaa ggctaaaggg cctaatgcac acagcctgtg      360
136 caggccgcga gtgcaccgac tataagcccc atgctattaa agc                                     403
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 401
141 <212> TYPE: DNA
142 <213> ORGANISM: Rattus sp.
144 <400> SEQUENCE: 8
145 cctcagtagg agggagcgcg tgtgtgtgtg tgtgcgctg tgtgagtggtg tgtaacaacc      60
147 cagaaagctg ggaagagctg cagagaggca gtgtttatta gattcacact tagacactga      120
149 ttgtgggttc tggcttagct cttttataat tgtacagcta tatttttgct gctttgtaat      180
151 aggataattc ttaagcatca tcttaacata gaggtatttt gcttcttttt tgtggcgctt      240
153 gacattaagt gcagcctctc acataggcta agcaagtgtc gcgcacttga gtgaactgca      300
155 gcagaagtag tcgctgcacg tgtaaaacaa ggctacagat tctaatagcac acagcctgtg      360

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157 cagaccgcgt gtccaccgtc tataaggcat ggctataacg g 401
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 402
162 <212> TYPE: DNA
163 <213> ORGANISM: Rattus sp.
165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (237)..(237)
168 <223> OTHER INFORMATION: n
170 <400> SEQUENCE: 9
171 ctttaatagc catggcctta tagacgggtg ccacgcggcc tgcacaggct gtgtgcatta 60
173 ggcccttttag ccttggttta cacttgcagc acctacttct gctgggggttc aactcagtgc 120
175 acagcacttg cttagcctat gtgagaccct gcacttaatg cccagcacca caaaaaagaa 180
W--> 177 acaaaataacc tctatttttaa gatgatgctt aagaattatc ctattacaaa gcagcanaaaa 240
179 tataacttta caattataaa agagctaaac caggaccac aatcagtgtc taagtgtgaa 300
181 tctaataaac actgcctctc tgcagctctt accagctttc tgggttggtg cacacactca 360
183 cacacgcgca cacacacaca cacgcgctcc ctctactga gg 402
186 <210> SEQ ID NO: 10
187 <211> LENGTH: 410
188 <212> TYPE: DNA
189 <213> ORGANISM: Rattus sp.
191 <400> SEQUENCE: 10
192 tggagcta at tgcgcgcggc cgcgggtacga cgaacctgcc cctgatgacc ctcacccctt 60
194 ttgcataggt cactggatcc cactgtcctt cctcggtgct tacacacttt acagaccctt 120
196 taggcgagcc cttgcataga gcgttatctc agtgcctcat tccagtctg actccctgtg 180
198 gccattgaga ctttgattt aagaactcac attgctaggg agaggggctt tgctgggaaa 240
200 ggtgactcct ctgtaaccta gcctcttggt ctctcctcatg acagaaatgc tgggtggagt 300
202 tttacatttg ccaatggcca gcttgtgaat atcttcatat acactttcta ttcattgtac 360
204 tgtagtttct gttttgaaat aaaacttctg aatgtaaaaa aaaaaaaaaa 410
207 <210> SEQ ID NO: 11
208 <211> LENGTH: 242
209 <212> TYPE: DNA
210 <213> ORGANISM: Rattus sp.
212 <400> SEQUENCE: 11
213 cttggtcaca gtgctttcct tacaccctta tgatgaaagt cactgtaaga agggctgctg 60
215 gcagtcacag cacaccctgt gtgcagagtc ggccatgctt tgggaggggtg tcaggaaaga 120
217 gtcatttact ttgactgcct gtgggctgac ttcagaactt cagggtctta ggtttgctgg 180
219 cttctgaaaa cactttctaa agagcccatg aaatataaat ataactaact tagaaagccc 240
221 tg 242
224 <210> SEQ ID NO: 12
225 <211> LENGTH: 69
226 <212> TYPE: DNA
227 <213> ORGANISM: Rattus sp.
229 <400> SEQUENCE: 12
230 tttttttttt tttttttttt tttttaaaaa ttcaaggatg gggttaaagg gggaattccc 60
232 gggggggggg 69
235 <210> SEQ ID NO: 13
236 <211> LENGTH: 165
237 <212> TYPE: DNA

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238 <213> ORGANISM: Rattus sp.
240 <400> SEQUENCE: 13
241 ggtacggcgt acctgcctcc cagtcttctc ttttctatag catggcctta agcctgcctc      60
243 cttgacatgc tgtatatatt ctattgtatt tgtttcattg tcccacactt aactcaggtg      120
245 tgctaaaaat aaaagtaaatt ttaacagtc aaaaaaaaaa aaaaa      165
248 <210> SEQ ID NO: 14
249 <211> LENGTH: 172
250 <212> TYPE: DNA
251 <213> ORGANISM: Rattus sp.
253 <400> SEQUENCE: 14
254 tttttttttt ttttttggac ggtaaaaatt aactttaatt ttaagcacac ctgagttaag      60
256 gggggaacaa tgaaacaaat ccaatagaat ttttacagca tgtaaaggag gcagggttaa      120
258 aagccatgct ataaaaaaga gaaaactgga aggcaggtac gccgtaccgg gc      172
261 <210> SEQ ID NO: 15
262 <211> LENGTH: 157
263 <212> TYPE: DNA
264 <213> ORGANISM: Rattus sp.
266 <400> SEQUENCE: 15
267 ctgcctccca gtcttctctt ttctatagca tggctttaaa gcctgcctcc ttgacatgct      60
269 gtatatattc tattgtattt gtttcattgt cccacactta actcaggtgt gctaaaaata      120
271 aaagtaaatt ttaacagtca aaaaaaaaaa aaaaagg      157
274 <210> SEQ ID NO: 16
275 <211> LENGTH: 209
276 <212> TYPE: DNA
277 <213> ORGANISM: Rattus sp.
279 <400> SEQUENCE: 16
280 ccatacagtg cgcacttcga gtataacaac gcgagtgcaa tgctttacca tgatgcatga      60
282 agaaaactga ggagacagat cagctactat cgtagccatt acagctgaag agattcaaaa      120
284 ttggaaggca ctaactgatt gcgttaagac gcattctatc aagggttatca tagatgaaag      180
286 atcatagaaa ctggaaggca taaactgag      209
289 <210> SEQ ID NO: 17
290 <211> LENGTH: 323
291 <212> TYPE: DNA
292 <213> ORGANISM: Rattus sp.
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (280)..(320)
297 <223> OTHER INFORMATION: n
299 <400> SEQUENCE: 17
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302 agaaaactga ggagacagat cagctactat cgaagccatt acagctggag agatacttac      120
304 tgggaagccg ctaactgatt gcgttacgtc gaaatgtatc aagggttatca tagatgagag      180
306 atcatagaaa ctgctaggca tacactgagc attaagctta tcgacaccgt ggagctcgag      240
W--> 308 gtgagtccac gcaccagctg tgggaccgtg tagggactgn tacctacgag catggcgaga      300
W--> 310 tcataggcat agnntngtan tca      323
313 <210> SEQ ID NO: 18
314 <211> LENGTH: 159
315 <212> TYPE: DNA
316 <213> ORGANISM: Rattus sp.

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318 <220> FEATURE:
319 <221> NAME/KEY: misc_feature
320 <222> LOCATION: (60)..(60)
321 <223> OTHER INFORMATION: n
323 <400> SEQUENCE: 18
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326 tgatatattc tattgtattt gtttcattgt cccacactta actcaggtgt gctaaaaata      120
328 aaagtaaatt ttaacagtca aaaaaaaaaa aaaaaaagg      159
331 <210> SEQ ID NO: 19
332 <211> LENGTH: 162
333 <212> TYPE: DNA
334 <213> ORGANISM: Rattus sp.
336 <400> SEQUENCE: 19
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339 gacatgctgt atatattcta ttgtatttgt ttcattgtcc cacacttaac tcaggtgtgc      120
341 taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa aa      162
344 <210> SEQ ID NO: 20
345 <211> LENGTH: 142
346 <212> TYPE: DNA
347 <213> ORGANISM: Rattus sp.
349 <220> FEATURE:
350 <221> NAME/KEY: misc_feature
351 <222> LOCATION: (50)..(50)
352 <223> OTHER INFORMATION: n
354 <400> SEQUENCE: 20
W--> 355 cttctctttt ctatagcatg gctttaaaagc ctgcctcctt gacatgctgn atatattcta      60
357 ttgtatttgt ttcattgtcc cacacttaac tcaggtgtgc taaaaataaa agtaaatttt      120
359 aacagtcaaa aaaaaaaaaa aa      142
362 <210> SEQ ID NO: 21
363 <211> LENGTH: 162
364 <212> TYPE: DNA
365 <213> ORGANISM: Rattus sp.
367 <220> FEATURE:
368 <221> NAME/KEY: misc_feature
369 <222> LOCATION: (68)..(68)
370 <223> OTHER INFORMATION: n
372 <400> SEQUENCE: 21
373 cgacgaacct gcctcccagt cttctctttt ctatagcatg gctttaaaagc ctgcctcctt      60
W--> 375 gacatgctgt atatattcta ttggatttgt ttcattgtcc cacacttaac tcaggtgtgc      120
377 taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa ag      162
380 <210> SEQ ID NO: 22
381 <211> LENGTH: 159
382 <212> TYPE: DNA
383 <213> ORGANISM: Rattus sp.
385 <400> SEQUENCE: 22
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388 gacatgctgt atatattcta ttgtatttgt ttcattgtcc cacacttaac tcaggtgtgc      120
390 taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa      159
393 <210> SEQ ID NO: 23

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/26/2002
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 255
Seq#:9; N Pos. 237
Seq#:17; N Pos. 280,313,314,316,320
Seq#:18; N Pos. 60
Seq#:20; N Pos. 50
Seq#:21; N Pos. 68
Seq#:26; N Pos. 70
Seq#:46; N Pos. 339,344
Seq#:47; N Pos. 386
Seq#:61; N Pos. 511,522,561,572,589,602,666
Seq#:63; N Pos. 561,595,604,614
Seq#:64; N Pos. 217,321,543,544,545,546,547,548,605,635,643
Seq#:79; N Pos. 344,345,403
Seq#:85; N Pos. 466
Seq#:91; N Pos. 459,460
Seq#:94; N Pos. 156,189,212,238
Seq#:95; N Pos. 2
Seq#:101; N Pos. 2
Seq#:104; N Pos. 42
Seq#:105; N Pos. 120
Seq#:107; N Pos. 120,129,149
Seq#:108; N Pos. 19
Seq#:109; N Pos. 20,106,118,143,174,221
Seq#:111; N Pos. 30,175
Seq#:112; N Pos. 34
Seq#:115; N Pos. 18,26,151
Seq#:116; N Pos. 14
Seq#:117; N Pos. 207
Seq#:120; N Pos. 2,19,27,33,67
Seq#:122; N Pos. 11,99,100,125,140
Seq#:126; N Pos. 80
Seq#:128; N Pos. 19,72,202
Seq#:129; N Pos. 13,19,45
Seq#:130; N Pos. 46,47

VERIFICATION SUMMARY

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L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:180
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:240
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:300
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60
L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:60
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:300
L:812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:360
L:1067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:480
L:1069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:540
L:1071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:600
L:1073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:660
L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:540
L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:600
L:1158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:180
L:1162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:300
L:1170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:540
L:1172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:600
L:1448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:300
L:1450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:360
L:1563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:420
L:1672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:420
L:1730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:120
L:1732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:180
L:1748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0
L:1831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0
L:1873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0
L:1893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:60
L:1924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:60
L:1926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:120
L:1940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0
L:1958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:1960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:60
L:1962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:120
L:1964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:180
L:1989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:0
L:1993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:120
L:2009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0
L:2059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
L:2063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:120
L:2077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0
L:2103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:180
L:2147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0
L:2149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:60
L:2176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0
L:2178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:60

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L:2180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:120
L:2235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:60